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Substitute for form 1449B/P.T.O.		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 18, 2006 (use as many sheets as necessary)		Application Number	10/873,647		
		Filing Date	09/30/2003		
		First Named Inventor	A. Robin POOLE		
		Group Art Unit	1646		
		Examiner Name	Unassigned		
Sheet	1	of	1	Attorney Docket Number	079328-0107

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	D1	6,132,976		POOLE et al.	10-17-2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
<i>hse</i>	D2	EP	0 916 395	A2	Helsinn Chemical Ireland Limited	05-19-1999		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
<i>hse</i>	D3	BILLINGHURST, R.C. et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage," J. Clin. Invest., Vol. 99, No. 7, pp. 1534-45 (1997).	
	D4	HAYASHI et al., "Change of Collagen Types in Pathological Articular Cartilages," EMBASE, Elsevier, Vol. 49, No. 5, Abstract (1999). <i>Source, i.e. journal?</i>	

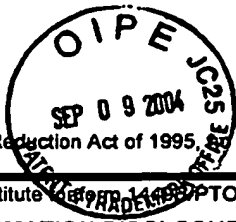
Examiner Signature	<i>hse</i> 4/27/06	Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute Form 1463 PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: September 9, 2004 (use as many sheets as necessary)				Complete if Known	
				Application Number	10/673,647
Sheet 1 of 1				Filing Date	9/30/2003
				First Named Inventor	A. Robin Poole
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	079328-0107

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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APR	C1	HOLLANDER, A. P., et al., "Damage to Type II Collagen in Aging and Osteoarthritis Starts at the Articular Surface, Originates Around Chondrocytes, and Extends into the Cartilage with Progressive Degeneration", J. Clin. Invest., vol. 96, pp. 2859-2869 (1995).	

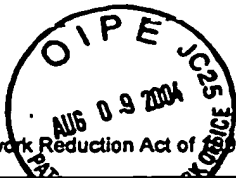
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⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for PTO Form 449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: August 9, 2004

(use as many sheets as necessary)

Complete if Known

Application Number	10/673,647
Filing Date	09/30/2003
First Named Inventor	A. Robin POOLE
Group Art Unit	1646
Examiner Name	Unassigned
Attorney Docket Number	079328-0107

Sheet 1 of 1

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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<i>AS</i>	A1	POOLE, "Biochemical/Immunochemical Biomarkers of Osteoarthritis: Utility For Prediction of Incident or Progressive Osteoarthritis," Rheum Disease Clinic of North America, Vol. 29, No. 4, November 2003, pp. 803-818.	
<i>AS</i>	A2	OTTERNESS et al., "An Analysis of 14 Molecular Markers For Monitoring Osteoarthritis: Segregation of The Markers Into Clusters And Distinguishing Osteoarthritis At Baseline," Osteoarthritis And Cartilage, OsteoArthritis Research Society International, Vol. 8, No. 3, 2000, pp. 180-185.	

Examiner
Signature*AS* 4/21/04Date
Considered

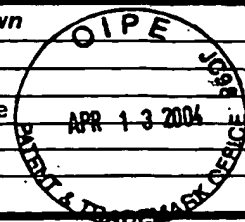
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 12, 2004 (use as many sheets as necessary)		Application Number	10/673,647
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet	1	of	2
		Attorney Docket Number	079328-0107



U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

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	A1	BILLINGHURST, R.C. et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage," J. Clin. Invest., vol. 99, no. 7, pp. 1634-45 (1997). Duplicate	
SPZ	A2	DAHLBERG, L. et al., "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen In Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor that Spares Collagenase 1 (Matrix Metalloproteinase 1)," <i>Arthritis Rheum.</i> , vol. 43, no. 3, pp. 673-82 (2000).	
SPZ	A3	DODGE, G.R. and POOLE, A.R., "Immunohistochemical Detection and Immunochemical Analysis of Tyupe II Collagen Degradation in Human Normal, Rheumatoid, and Osteoarthritic Articular Cartilages and In Explants of Bovine Articular Cartilage Cultured with Interleukin 1," <i>J. Clin. Invest.</i> , vol. 83; pp. 647-61 (1989).	
SPZ	A4	GARNERO P. et al., "Molecular Basis and Clinical Use of Biochemical Markers of Bone, Cartilage, and Synovium in Joint Diseases," <i>Arthritis Rheum.</i> , vol. 43, no. 5, pp. 673-82 (2000).	

Examiner Signature	<i>SPZ</i> 4/27/02	Date Considered	
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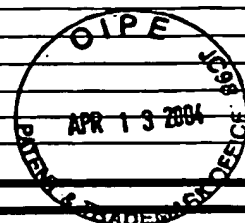
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 12, 2004 (use as many sheets as necessary)		Application Number	10/673,847
		Filing Date	09/30/2003
		First Named Inventor	A. Robin Poole
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet	2	of	2
		Attorney Docket Number	079328-0107



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	A5	HENDERSON, B., EDWARDS, J.C.W., PETTIPHER, E.R. (eds), Mechanisms and Models in Rheumatoid Arthritis, London, Academic Press, (1995) <i>Book not enclosed</i>	
<i>LSR</i>	A6	HOLLANDER, A.P. et al., "Increased Damage to Type II Collagen in Osteoarthritic Articular Cartilage Detected by a New Immunoassay," J. Clin. Invest., vol. 93, pp. 1722-1732 (1994).	
<i>LSR</i>	A7	In J.C. STEVENSON, RE. Lindsay, (eds), "Biological Markers of Bone Turnover in Osteoporosis," Osteoporosis, pp. 117-136, London, Chapman and Hall, (1998) <i>Delmas and Garnero</i>	
<i>LSR</i>	A8	POOLE A.R., AND HOWELL D.S., Etiopathogenesis of Osteoarthritis. In: <i>Diagnosis and Medical/Surgical Management</i> (3 rd ed.), Moskowitz, R.W. et al. (Eds), pp. 29-37, Philadelphia, Saunders Company (2001)	
<i>LSR</i>	A9	WU, W. et al., "Sites of Collagenase Cleavage and Denaturation of Type II Collagen in Aging and Osteoarthritic Articular Cartilage and Their Relationship to the Distribution of Matrix Metalloproteinase 1 and Matrix Mettaloproteinase 13," <i>Arthritis Rheum.</i> , vol. 46, no.8, pp. 2087-2094 (2002)	

Examiner Signature	<i>LSR</i> 4/27/04	Date Considered	
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